

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

IL-7446F V

SERIAL NO.

~~537-305~~

APPLICANT

Joe W. Gray et al.

FILING DATE

June 12, 1990

GROUP

180

## U.S. PATENT DOCUMENTS

|    | DOCUMENT<br>NUMBER | DATE     | NAME                   | CLASS | SUBCLASS | FILING<br>DATE      |
|----|--------------------|----------|------------------------|-------|----------|---------------------|
| AM | 4 7 7 0 9 9 2      | 09/03/88 | Van den Engh and Trask | 435   | 6        | 11/27/85            |
| AM | 4 8 8 1 8 4 0      | 07/21/87 | Stephenson et al.      | 435   | 6        | 01/18/84            |
| AM | 4 7 2 5 5 3 6      | 02/16/89 | Fritsch et al.         | 435   | 6        | 09/19/85            |
| AM | 4 7 2 1 6 6 9      | 01/26/88 | Barton                 | 435   | 6        | 01/18/85            |
| AM | 4 7 0 7 4 4 0      | 11/17/87 | Stavrianopoulos        | 435   | 6        | 01/30/84            |
| AM | 4 6 8 3 1 9 5      | 07/28/87 | Mullis et al.          | 435   | 6        | 02/07/86            |
| AM | 4 6 4 7 5 2 9      | 03/0/ 87 | Rodland et al.         | 435   | 6        | 01/18/84            |
| AM | 4 8 8 8 2 7 8      | 12/18/89 | Singer and Lawrence    | 435   | 6        | 10/13/88<br>(cont.) |
|    |                    |          |                        |       |          | 10/22/85)           |

## FOREIGN PATENT DOCUMENTS

|    | DOCUMENT<br>NUMBER | PUBL<br>DATE | COUNTRY                | CLASS                                | SUBCLASS | TRANSLATION |    |
|----|--------------------|--------------|------------------------|--------------------------------------|----------|-------------|----|
|    |                    |              |                        |                                      |          | YES         | NO |
| AM | 2 0 1 9 4 0 8      | 10/31/79     | U.K., Kourilsky et al. | C07H2V/<br>00                        | C0767/02 |             |    |
| AM | 9 0 0 5 7 8 9      | 05/31/90     | W.O., Ward et al.      | C12Q 1/68                            |          |             |    |
| AM | 2 2 1 5 7 2 4      | 09/27/89     | U.K., Moyzis et al.    | C12Q 1/68, C07H<br>21/00, C12N 15/00 |          |             |    |
| AM | 8 7 0 5 0 2 7      | 08/27/87     | W.O., Page             | C07H 21/04, C12Q<br>1/68 C12N 15/00  |          |             |    |

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|    |   |
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| AM | Gray et al., (Abstract) "Flow Cytometric Detection of Chromosome Aberrations"; <u>Conference on Flow Cytometry in Cell Biology and Genetics</u> , January 15-17, 1985 (San Francisco, CA) |
| AM | Szabo and Ward, <u>TIBS</u> , 7(11): 425-427 (December 1982)  |
| AM | Gall and Pardue, <u>PNAS</u> (USA), 63: 378-383 (1969)  |

EXAMINER

Andi Mascher

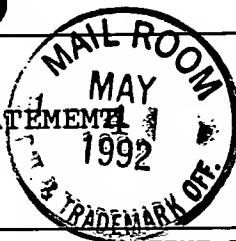
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|----|--------------------|----------|---------------|-------|----------|----------------|
| AM | 4 3 5 8 5 3 5      | 11/09/82 | Falkow et al. | 435   | 5        | 12/08/80       |
| AM | 4 7 1 1 9 5 5      | 12/08/87 | Ward et al.   | 536   | 29       | 05/23/83       |
| AM | 4 7 7 2 6 9 1      | 09/20/88 | Herman        | 536   | 27       | 06/05/85       |
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|  | DOCUMENT<br>NUMBER | PUBL<br>DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|--------------------|--------------|---------|-------|----------|-------------|----|
|  |                    |              |         |       |          | YES         | NO |
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| AM | Buongiorno-Nardelli and Amaldi, <u>Nature</u> , 225: 946-948 (1970) |
| AM | John et al. <u>Nature</u> , 223: 582-587 (1969)                     |
| AM | Schardin et al., <u>Hum. Genet.</u> , 71: 281-287 (1985)            |

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Ad. Marsh

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|                                  |   | APPLICANT<br>Joe W. Gray et al. 08/342028 |                                  |
|                                  |   | FILING DATE<br>June 12, 1990              | GROUP<br>180                     |
| OTHER DISCLOSURES                |   |   |                                  |
| AM                               | Van Dilla and Deaven (Abstract), <u>Am J. of Human Genetics</u> , 37 (R Supplement) (July 1985) |   |                                  |
| AM                               | Lewin, R., <u>Science</u> , 221 (4616): 1167 (16 Sept. 1983)                                    |   |                                  |
| AM                               | Albertson, <u>EMBO J.</u> , 4 (10): 2493-2498 (1985)  |   |                                  |
| AM                               | Albertson, <u>EMBO J.</u> , 3 (6): 1227-1234 (1984)   |   |                                  |
| AM                               | Cox et al., <u>Developmental Biology</u> , 101: 485-502 (1984)                                  |   |                                  |
| AM                               | Sealy et al., <u>Nucleic Acid Research</u> , 13: 1905-1922 (1985)                               |   |                                  |
| AM                               | Harper and Saunders, <u>Chromosoma</u> (Berl) 83: 431-439 (1981)                                |   |                                  |
| AM                               | Wallace et al., <u>Nucleic Acids Research</u> , 9 (4): 879-894 (1981)                           |   |                                  |
| AM                               | Scalenghe et al., <u>Chromosoma</u> (Berl.), 82: 205-216 (1981)                                 |   |                                  |
| AM                               | Jabs et al., <u>PNAS</u> (USA), 81: 4884-4888 (1984)  |   |                                  |
| AM                               | Stewart et al., <u>Nucleic Acids Research</u> , 13(11): 4125-4132 (1985)                        |   |                                  |
| AM                               | Landegent et al., <u>Exp. Cell Res.</u> , 153: 61-72 (1984)                                     |   |                                  |
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~~Trask et al., "Detection of DNA Sequences in Nuclei in Suspension by In Situ Hybridization and Dual Beam", HCRL-93372 Abst. (No publication established)~~

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| APPLICANT<br>Joe W. Gray et al. |  |
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| AM | Heisterkamp et al., <u>Nature</u> , 306: 239-242 (17 Nov. 1983)                 |
| AM | Groffen et al., <u>Cell</u> , 36: 93-99 (Jan. 1984)                             |
| AM | Heisterkamp et al., <u>J. Molec. and Applied Genetics</u> , 2 (1): 57-68 (1983) |
| AM | Heisterkamp et al., <u>Nature</u> , 315: 758-761 (June 1985)                    |
| AM | Shtivelman et al., <u>Blood</u> , 69 (3): 971-973 (March 1987)                  |
| AM | Kievits et al., <u>Cytometry</u> , 11: 105-109 (1990)                           |
| AM | Rowley, <u>Nature</u> , 243: 290-293 (June 1973)                                |
| AM | Grosveld et al., <u>Molec. and Cell Biol.</u> , 6 (2): 607-616 (1986)           |
| AM | Benn et al., <u>Cancer Genet. Cytogenet.</u> , 29: 1-7 (1987)                   |
| AM | Abe et al., <u>Cancer Genet. Cytogenet.</u> , 38: 61-74 (1989)                  |
| AM | Dube et al., <u>Genes, Chromosomes &amp; Cancer</u> , 1: 106-111 (1989)         |
| AM | Hirosawa et al., <u>Am. J. Hematol.</u> , 28: 33-36 (1988)                      |

EXAMINER *David Marshall*

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EXAMINER

Audi Manschet

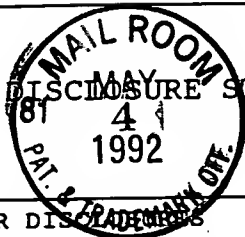
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AM Lichter et al., PNAS (USA), 85: 9664-9668 (Dec. 1988)

AM Pinkel et al., Cold Spring Harbor Symposia on Quantitative Biology, Vol. LI: 151-157 (1986)

AM Pinkel et al., Am. J. Hum. Genet., (Supplement), 39 (3): A129 (379) (Sept. 1986)

AM Pinkel et al., Am. J. Hum. Genet. (Supplement), 41 (3): A34 (096; 12.12) (Sept. 1987)

AM Gray et al., Cytometry (Suppl. 1), Abst. 19, p. 4 (1987)

AM Pinkel et al., Am. J. Hum. Genet (Supplement), 37 (4): A112 (328; 17.2) (July 1985)

AM Lichter and Ward, Nature, 345: 93-94 (May 1990)

AMO Cremer et al., Hum. Genet., 74: 346-352 (1986)

AMO Cremer et al., Exp. Cell Res., 176: 199-220 (1988)

AMO Selypes and Lorenez, Hum. Genet. 79: 357-359 (1988)

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Ardin Mascher

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| June 12, 1990      | 180        |

OTHER DISCLOSURES

|                           |  |
|---------------------------|--|
| Date<br>publication<br>No | UCRL-93243 ABST: Pinkel et al., "Simplified Cytogenetics Using Biotin Labeled Nucleic Acid Probes and Quantitative Fluorescence Microscopy" (no publication date established)  |
|                           | UCRL-93269 ABST: Pinkel et al., "Cytogenetics Using Fluorescent Nucleic Acid Probes and Quantitative Microscopic Measurement" (no publication date established)  |
|                           | UCRL-93372 ABST: Trask et al., "Detection of DNA Sequences in Nuclei in Suspension by In Situ Hybridization and Dual Beam Flow Cytometry" (no publication date established)  |
|                           | UCRL-93553 ABST: Pinkel et al., "Rapid, Quantitative Cytogenetic Analysis Using Fluorescently Labeled Nucleic Acid Probes" (no publication date established)   |
|                           | UCRL-93567 ABST: Gray et al., "Quantitative Cytogenetics: Progress Report on the Development of Fluorescence Hybridization for Specific Chromosome Staining" (no publication date established)                                       |
|                           | UCRL-93837 ABST: Straume et al., "Chromosome Translocations at Low Radiation Doses Quantified Using Fluorescent DNA Probes" (no publication date established)  |
| No                        | UCRL 102263 ABST: Lucas et al., "Rapid Translocation Analysis Using Fluorescence In Situ Hybridization: Applied to Long Term Biological Dosimetry" (no publication date established)   |
|                           | UCRL-101042 ABST: Pinkel et al., "Detection of Translocations and Aneuploidy in Metaphase Spreads and Interphase Nuclei by In Situ Hybridization with Probes which Stain Entire Human Chromosomes" (no publication date established) |
|                           | UCRL-10143 ABST: Pinkel et al., "Detection of Structural and Numerical Abnormalities in Metaphase Spreads and Interphase Nuclei Using In Situ Hybridization" (no publication date established)                                       |
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| EXAMINER | <i>Ardi Masahay</i> | DATE CONSIDERED | 7-27-92 |
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